



PTO/SB/08B (08-03)

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| <b>Substitute Form 1449B/PTO</b><br><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |                        | <b>Complete if Known</b> |                 |
|   |                        | Application Number       | 09/856,391      |
|   |                        | Filing Date              | January 7, 2002 |
|   |                        | First Named Inventor     | Marth, Jamey D. |
|   |                        | Art Unit                 | 1635            |
|   |                        | Examiner Name            | Zara, Jane J.   |
| Sheet 3 of  | Attorney Docket Number | 19452A-000320US          |                 |

| U.S. PATENT DOCUMENTS+ |                       |   |                                |  |   |
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| Examiner Initials*     | Cite No. <sup>1</sup> | Document Number<br>Number Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |

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| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |                     |                                   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
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| Examiner Initials*              | Cite No. <sup>1</sup>   | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  | T <sup>2</sup> |
| 83                              | AA  | BAUM, Linda G. et al.; "Human Thymic Epithelial Cells Express an Endogenous Lectin, Galectin-1, which Binds to Core 2 O-Glycans on Thymocytes and T Lymphoblastoid Cells"; 1995, <u>J. Exp. Med.</u> , Vol. 181, pp. 877-887.  |                |
|                                 | AB  | BIERHUIZEN, Marti F.A. et al.; "Expression cloning of a cDNA encoding UDP-GlcNAc:Gal $\beta$ 1-3-GalNAc-R (GlcNAc to GalNAc) $\beta$ 1-6GlcNAc transferase by gene transfer into CHO cells expressing polyoma Large tumor antigen"; 1992, <u>Proc. Natl. Acad. Sci.</u> , Vol. 89, pp. 9326-9330.                            |                |
|                                 | AC  | BROCKHAUSEN, I. et al.; "Biosynthesis of O-Glycans in Leukocytes from Normal Donors and from Patients with Leukemia: Increase in O-Glycan Core 2 UDP-GlcNAc:Gal $\beta$ 3GalNAc-R (GlcNAc to GalNAc) $\beta$ (1-6)-N-Acetylglucosaminyltransferase in Leukemic Cells" 1991, <u>Cancer Research</u> , Vol. 51, pp. 1257-1263. |                |
|                                 | AD  | FOX, Robert I. et al.; "A Novel Cell Surface Antigen (T305) Found in Increased Frequency on Acute Leukemia Cells and in Autoimmune Disease States"; 1983, <u>The Journal of Immunology</u> , Vol. 131, No. 2, pp. 762-767.   |                |
|                                 | AE  | HIGGINS, Elizabeth A. et al.; "Aberrant O-Linked Oligosaccharide Biosynthesis in Lymphocytes and Platelets from Patients with the Wiskott-Aldrich Syndrome"; 1991, <u>The Journal of Biological Chemistry</u> , Vol. 266, No. 10, pp. 6280-6290.   |                |
|                                 | AF  | KUMAR, Ravindra et al.; "Core2 $\beta$ -1,6-N-Acetylglucosaminyltransferase Enzyme Activity Is Critical for P-Selectin Glycoprotein Ligand-1 Binding to P-Selectin"; 1988, <u>Blood</u> , Vol. 88, No. 10, pp. 3872-3879.  |                |
|                                 | AG  | LASKY, Laurence A.; "Selectin-Carbohydrate Interactions and the Initiation of the Inflammatory Response"; 1995, <u>Annu. Rev. Biochem.</u> , Vol. 64, pp. 113-139.   |                |
|                                 | AH  | LOWE, John B.; "Selectin ligands, leukocyte trafficking, and fucosyltransferase genes"; 1997, <u>Kidney International</u> , Vol. 51, pp. 1418-1426.  |                |
|                                 | AI  | LOWE, John B. et al.; "Perspectives Series: Cell Adhesion in Vascular Biology"; 1997, <u>J. Clin. Invest.</u> , Vol. 99, No. 5, pp. 822-826.   |                |
|                                 | AJ  | MALY, Petr et al.; "The $\alpha$ (1,3) Fucosyltransferase Fuc-TVII Controls Leukocyte Trafficking through an Essential Role in L-, E-, and P-selection Ligand Biosynthesis"; 1996, <u>Cell</u> , Vol. 86, pp. 643-653.   |                |
| AK                              | PILLER, Friedrich et al.; "Altered O-Glycan Synthesis in Lymphocytes from Patients with Wiskott-Aldrich Syndrome"; 1991, <u>J. Exp. Med.</u> , Vol. 173, pp. 1501-1510.                             |  |                |
| AL                              | PILLER, Friedrich et al.; "Human T-lymphocyte Activation Is Associated with Changes in O-Glycan Biosynthesis" 1991, <u>The Journal of Biological Chemistry</u> , Vol. 263, No. 29, pp. 15146-15150. |  |                |

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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| Sheet  | 4               | of                       |                 |

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| J3<br>↓                         | AM                       | SAITOH, Osamu et al.; "T-Lymphocytic Leukemia Expresses Complex, Branched O-Linked Oligosaccharides on a Major Sialoglycoprotein, Leukosialin"; 1991, <u>Blood</u> , Vol. 77, No. 7, pp. 1491-1499.   |                     |                                   |                                |   |  |                |
|                                 | AN                       | SPRINGER, Timothy A.; "Traffic Signals on Endothelium for Lymphocyte Recirculation and Leukocyte Emigration"; 1995, <u>Annu. Rev. Physiol.</u> , Vol. 57, pp. 827-872.  |                     |                                   |                                |   |  |                |
|                                 | AO                       | TSUBOI, Shigeru et al.; "Branched O-linked oligosaccharides ectopically expressed in transgenic mice reduce primary T-cell immune responses"; 1997, <u>The EMBO Journal</u> , Vol. 16, No. 21, pp. 6364-6373.   |                     |                                   |                                |   |  |                |
|                                 | AP                       | WILLIAMS, David et al.; "Mucin Synthesis. I. Detection in Canine Submaxillary Glands of an N-Acetylglucosaminyltransferase which acts on Mucin Substrates"; 1980, <u>The Journal of Biological Chemistry</u> , Vol. 255, No. 23, pp. 11247-11252.               |                     |                                   |                                |   |  |                |

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| Examiner<br>Signature | J3 ~ | Date<br>Considered | 11/4/04 |
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